

Listing of Claims:

1. A method of plasmon enhanced body treatment or bacterial management comprising:  
providing a composition capable of changing a property of a biological substance, the  
composition comprising a plasmon source and a plasmon excited nanoparticle; and  
allowing an object containing the biological substance to interact with the composition.
2. The method of claim 1, wherein the biological substance is selected from a group  
consisting of: biomolecule, tissue, skin, cells, body organs, bacteria, virus, pathogen,  
biochemical warfare agent, human body or animal body.
3. The method of claim 1, wherein the composition is further provided with a chemical  
agent and the chemical agent is selected from the group of: an inorganic molecule,  
organic molecule, mixture of inorganic and organic molecules or drug.
4. The method of claim 3, wherein the chemical agent is hydrogen peroxide.
5. The method of claim 1, wherein the nanoparticle is a metal, metallic salt, electric  
conductor, electric superconductor or electric semiconductor.
6. The method of claim 5, wherein the metal is selected from a group consisting of silver,  
ruthenium, platinum, rhenium, rhodium, osmium, iridium, copper, zinc, nickel, chromium  
magnesium, iron, palladium, gold, titanium, titanium dioxide, silver nitrate, alkaline earth  
metal, gold, copper, silver oxide or silver ion.
7. The method of claim 1, wherein the nanoparticle is uncoated or coated with a material  
selected from the group of: biorecognitive, bioactive, dielectric, chemorecognitive,  
chemical active, polymer, environmentally sensitive polymer or polymer containing drug.
8. Canceled
9. The method of claim 1, wherein the nanoparticle size is in a range of 0.1 nm to 200,000  
nm in at least one of the dimensions.

10. The method of claim 1, wherein the nanoparticles is a thin film, colloid, fiber, metal island or nanowire.

11-15. Canceled

16. The method of claim 1 is used in a joints treatment, tissue treatment, cosmetic treatment, cosmetic prevention, rejuvenating treatment, therapy treatment, bacterial disease treatment, antibacterial treatment, virus treatment, cancer treatment, biostimulation treatment, antiodor treatment, sun prevention treatment, sunburn treatment, skin burn treatment, wound treatment or antiinflammation treatment.

17. The method of claim 1 is performed at a specific location in the object, where said the nanoparticle remains in the location for the object treatment.

18. Canceled

19. The method of claim 1 is applied in an air conditioning and heating system, air humidity control system, air ventilation system, disinfectant product, antiseptic product, water supply line, water container, septic tank, bathtub, whirlpool, Jacuzzi, swimming pool, dental waterlines, food technology, animal food technology, household cleaning product, kitchen product, product for pets, cosmetic product, hygiene product, medical bio-safety product, hair product, laundry product, textile material, pharmaceutical product for human, pharmaceutical product for animal, health supplement product, drinking water product, beverage product, paint product, biodefense product, furniture preserving product, art preserving product, sunburn protection product or sun-tanning technology.

20. The method of claim 1, wherein the plasmon source is selected from the group of energy sources: electromagnetic, sonic, electric, magnetic or ionized radiation.

Claim Objections and Claim Rejections 35 USC § 112

Claims 13-14 and 17 stand objected and claims 1-20 stand rejected under 35 USC §112.

Applicant substantially revised the claims to address the issues stated by the Examiner.

Claim Rejections 35 USC § 102

Applicant is asking to remove the references Kasemo (Biological Surface Science) and Pedahzur et al. (Water Science and Technology, 31, 5-6, pp.123-129). The disclosed report by Kasemo is being limited to the methods used in biological surface sensing. The Kasemo does not teach how to use plasmon for body treatment and bacterial management that are essential in the applicant's invention. The disclosed report by Pedahzur et al. does not teach of plasmon enhanced interaction of silver ions and hydrogen peroxide with biological substances.


Claim Rejections 35 USC § 103

Applicant cancelled the claim 15 and therefore is asking to remove the reference of Arisawa et al..

SUMMARY

All outstanding issues have been addressed. Taking into consideration the totality of the application as filed (i.e., the specification, claims and drawings), the currently amended application is in compliance with 35 USC § 112.

Sincerely,

  
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Date